Docket: 29252260

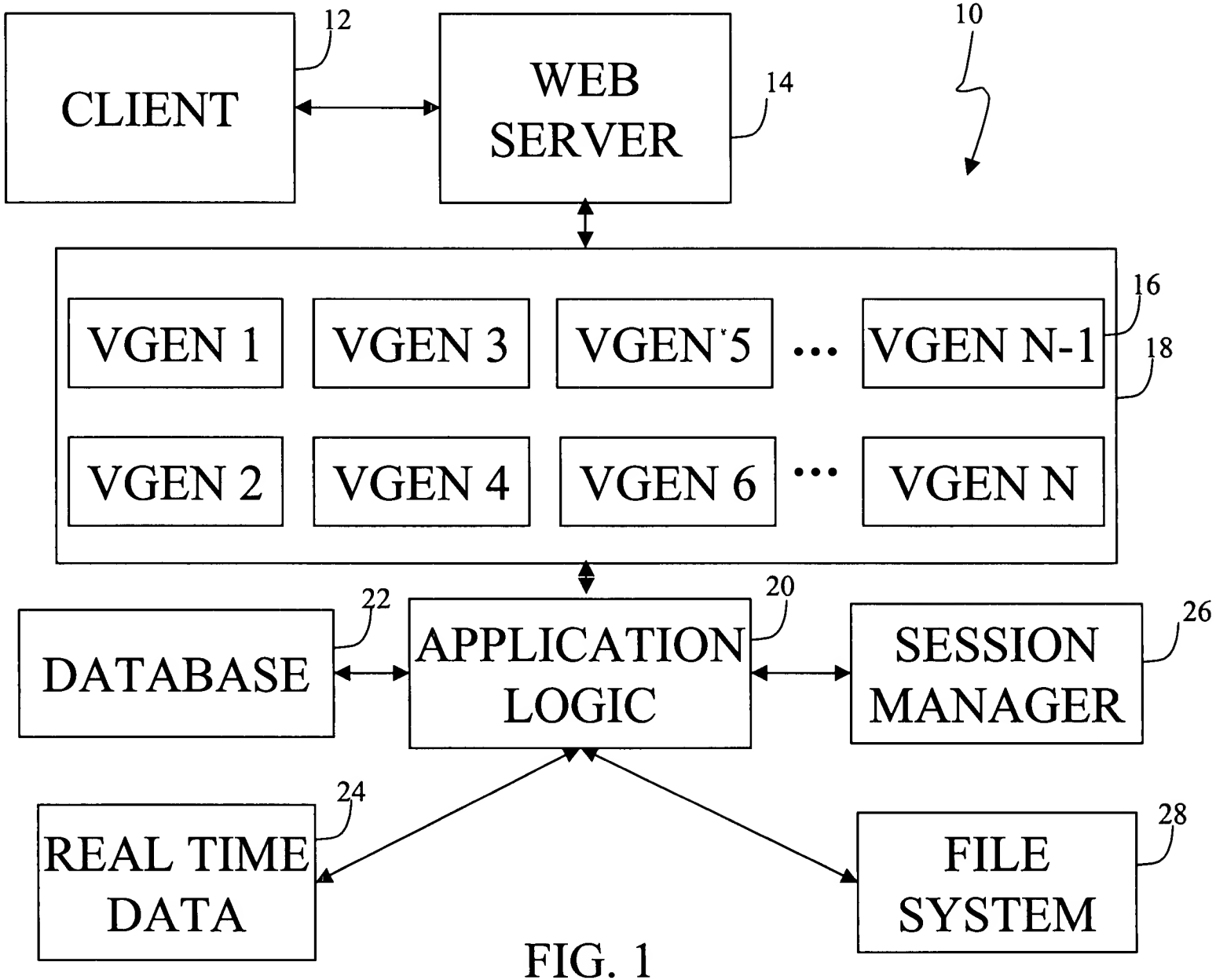

FIG. 1

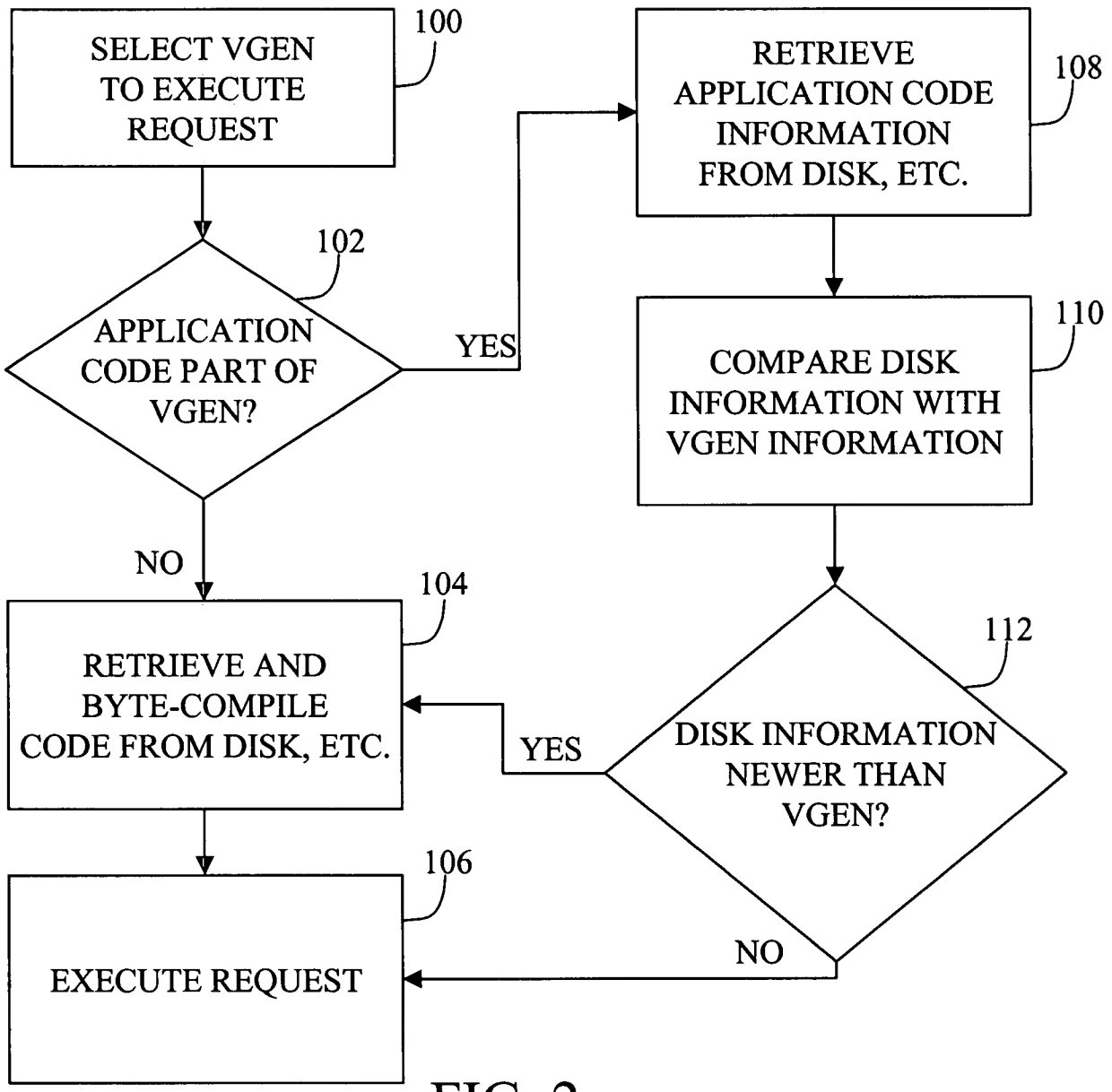
SELECT VGEN TO EXECUTE REQUEST
100
APPLICATION CODE PART OF VGEN?
102
YES
NO
RETRIEVE APPLICATION CODE INFORMATION FROM DISK, ETC.
108
COMPARE DISK INFORMATION WITH VGEN INFORMATION
110
DISK INFORMATION NEWER THAN VGEN?
112
YES
NO
RETRIEVE AND BYTE-COMPILE CODE FROM DISK, ETC.
104
EXECUTE REQUEST
106

FIG. 2

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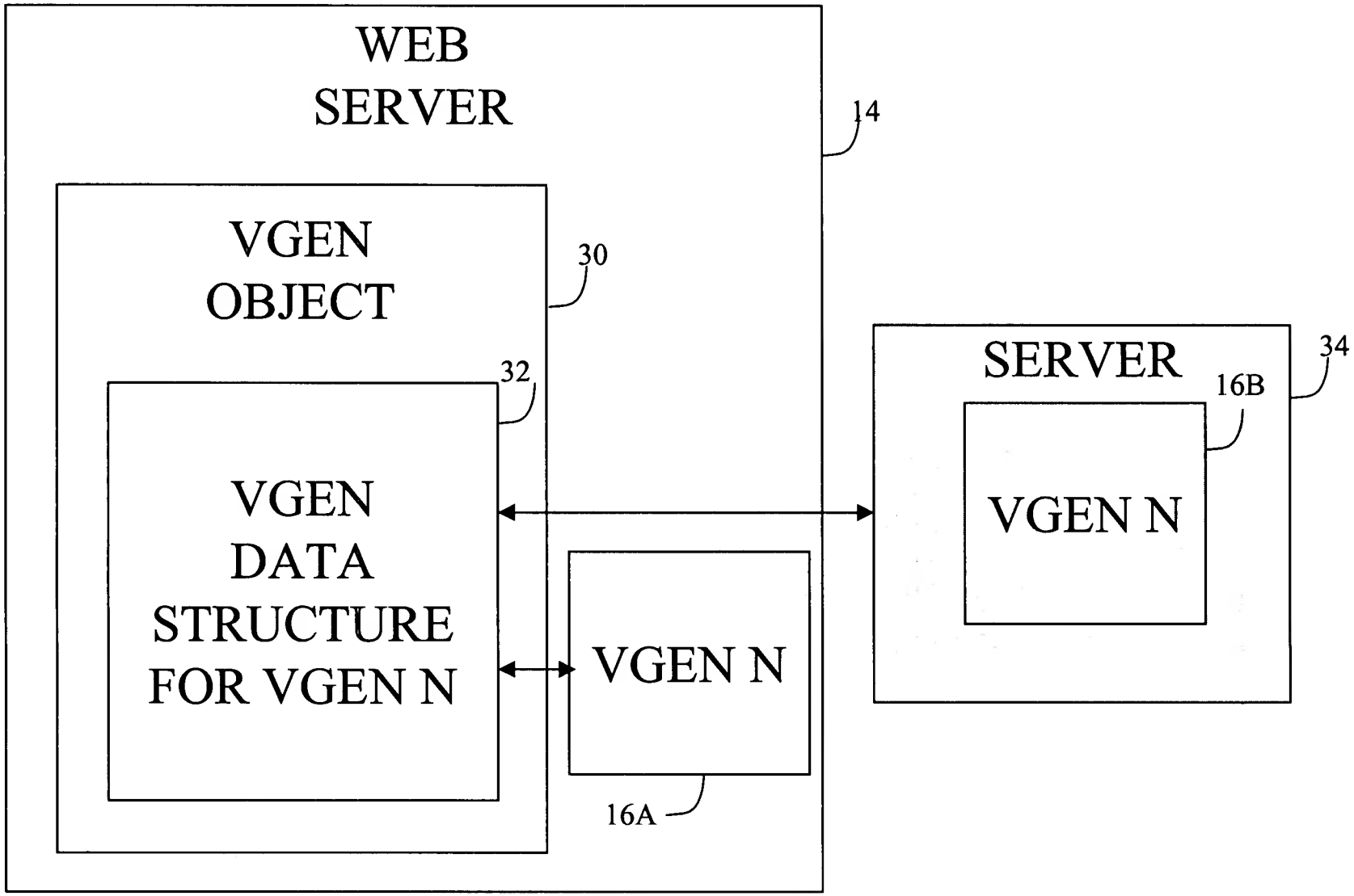

FIG. 3

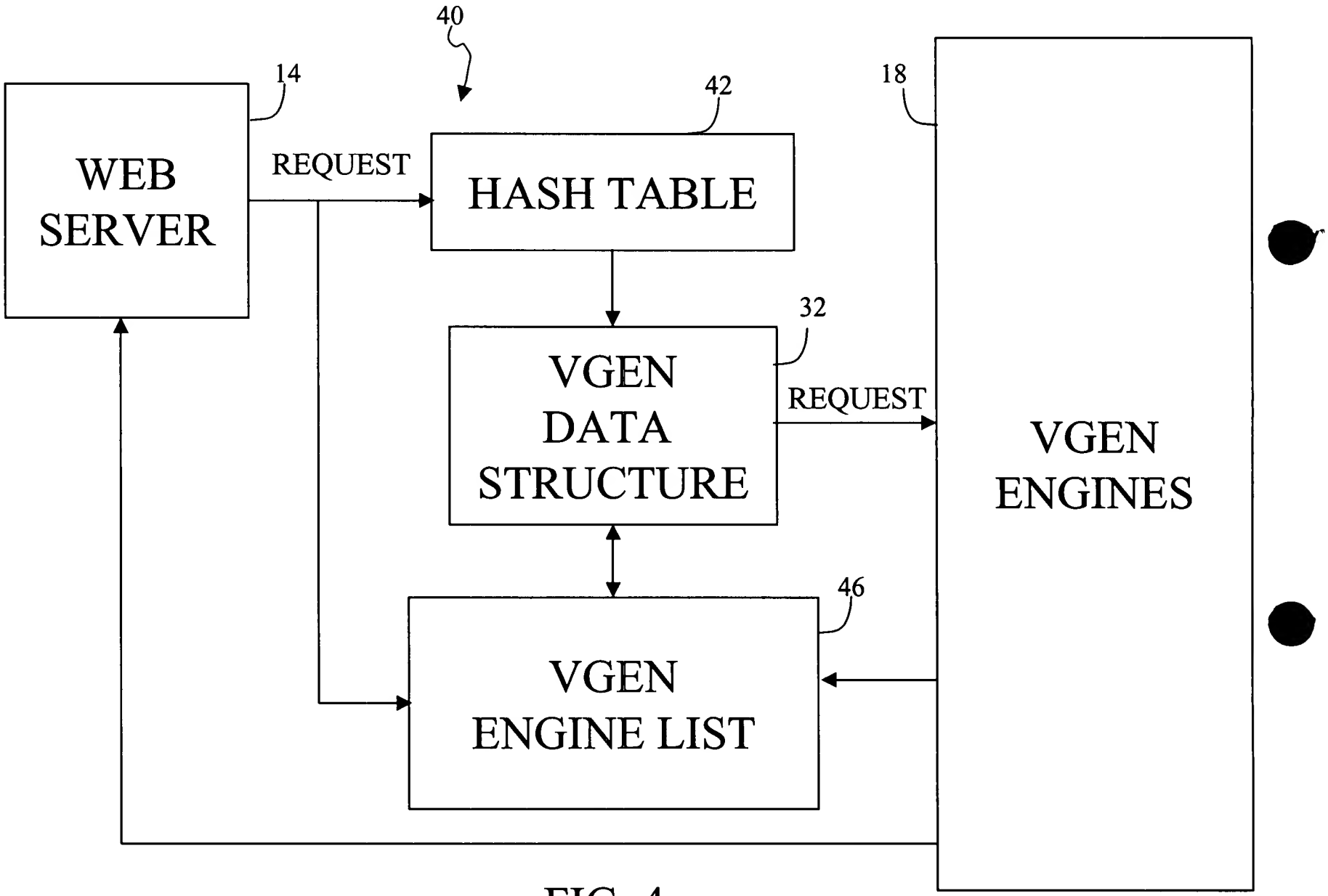
40
14
42
18
WEB SERVER
REQUEST
HASH TABLE
32
VGEN DATA STRUCTURE
REQUEST
VGEN ENGINES
46
VGEN ENGINE LIST

FIG. 4

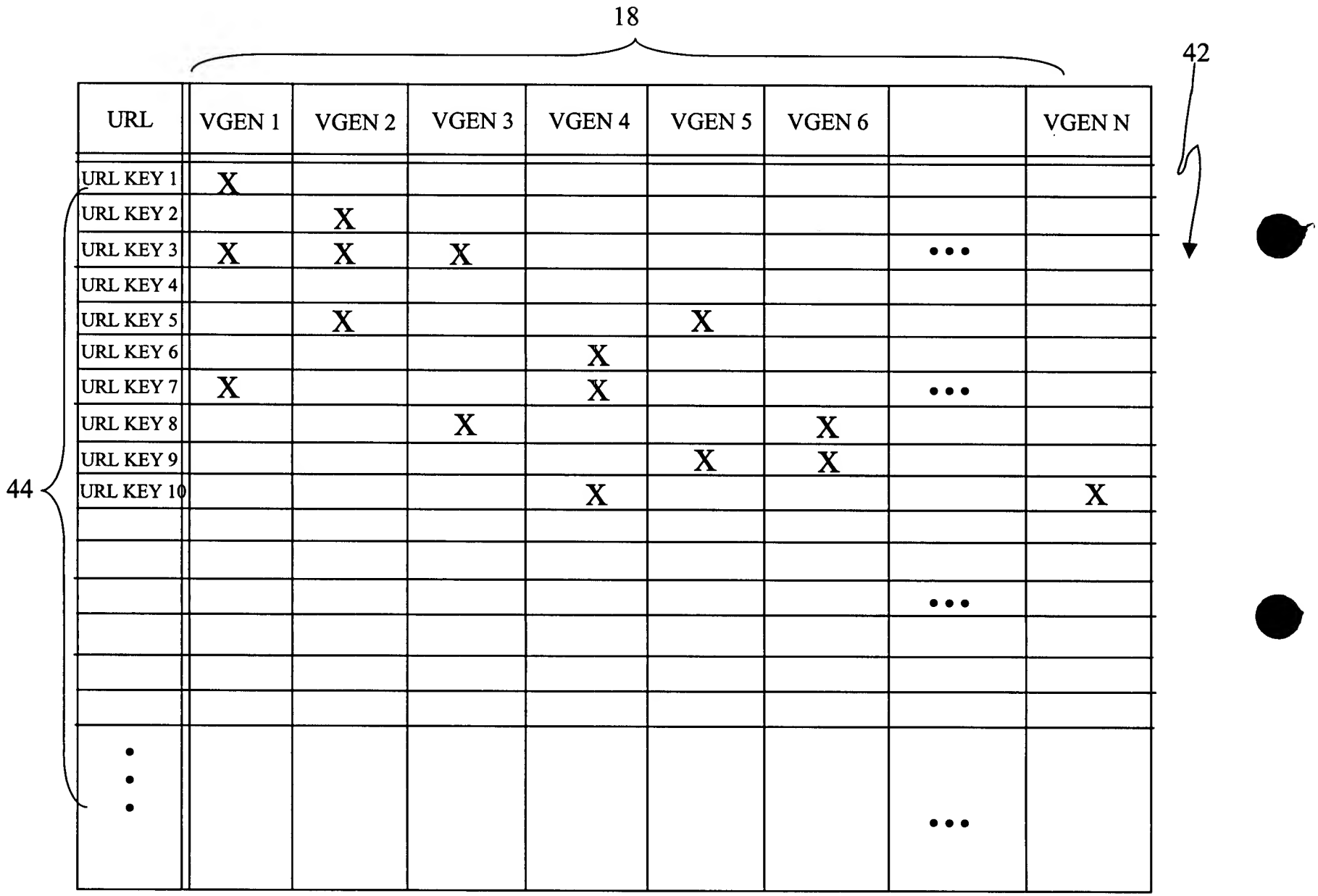
18
42
44
URL
VGEN 1
VGEN 2
VGEN 3
VGEN 4
VGEN 5
VGEN 6
VGEN N
URL KEY 1
URL KEY 2
URL KEY 3
URL KEY 4
URL KEY 5
URL KEY 6
URL KEY 7
URL KEY 8
URL KEY 9
URL KEY 10

FIG. 5

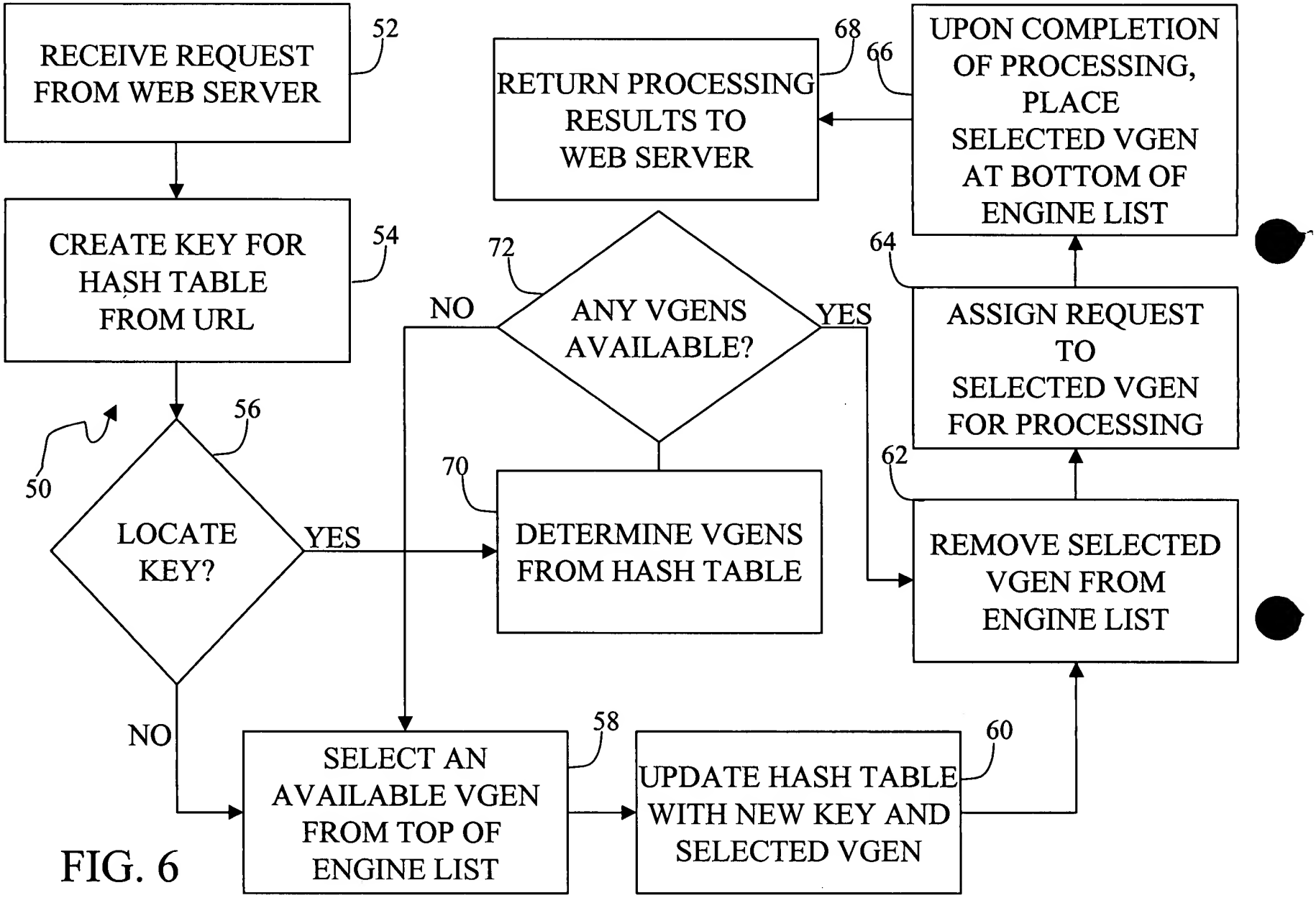
RECEIVE REQUEST FROM WEB SERVER
52
CREATE KEY FOR HASH TABLE FROM URL
54
50
56
LOCATE KEY?
YES
NO
70
DETERMINE VGENS FROM HASH TABLE
72
ANY VGENS AVAILABLE?
NO
YES
SELECT AN AVAILABLE VGEN FROM TOP OF ENGINE LIST
58
UPDATE HASH TABLE WITH NEW KEY AND SELECTED VGEN
60
REMOVE SELECTED VGEN FROM ENGINE LIST
62
ASSIGN REQUEST TO SELECTED VGEN FOR PROCESSING
64
UPON COMPLETION OF PROCESSING, PLACE SELECTED VGEN AT BOTTOM OF ENGINE LIST
66
RETURN PROCESSING RESULTS TO WEB SERVER
68

FIG. 6